## THAT WHICH IS CLAIMED IS:

- 1. A wireless terminal comprising:
- 5 a housing;

25

- an electronic circuit disposed within the housing;
- a flat-panel speaker positioned proximate a back side of the electronic circuit within the housing; and
- an internal antenna positioned proximate the flat-panel speaker on the back side of the electronic circuit within the housing.
  - 2. The wireless terminal of Claim 1, wherein the flat-panel speaker is integrated with the internal antenna.
- 15 3. The wireless terminal of Claim 2, wherein the flat-panel speaker and the internal antenna each comprise conductive portions that reside on a first primary surface of a common substrate.
- 4. The wireless terminal of Claim 1, wherein the internal antenna is a 20 planar antenna.
  - 5. The wireless terminal of Claim 1, wherein the housing includes an earpiece and a keyboard on a front face of the housing, and wherein the electronic circuit is positioned between the front face of the housing and the flat panel speaker and internal antenna.
  - 6. The wireless terminal of Claim 5, wherein the electronic circuit comprises a printed circuit board, and wherein the wireless terminal further comprises a forward acoustic passageway extending from the flat-panel speaker to the earpiece, the forward acoustic passageway comprising at least one acoustic aperture extending through the printed circuit board adjacent the flat-panel speaker.
  - 7. The wireless terminal of Claim 6, wherein the internal antenna is positioned between the printed circuit board and the flat-panel speaker and wherein

the forward acoustic passageway further comprises at least one acoustic aperture extending through the internal antenna.

- 8. The wireless terminal of Claim 1, wherein the electronic circuit comprises a printed circuit board having a signal feed and a ground plane, and wherein the internal antenna is operatively coupled to the signal feed and the ground plane.
- 9. The wireless terminal of Claim 1, wherein the electronic circuit includes an audio driver circuit coupled through a balanced feed to the flat-panel speaker.
- 10. The wireless terminal of Claim 9, wherein the balanced feed comprises a plurality of leads, and wherein the electronic circuit further comprises an RF
  15 isolation circuit on each lead of the balanced feed.
  - 11. The wireless terminal of Claim 10, wherein the RF isolation circuit comprises a tank circuit.
- 20 12. The wireless terminal of Claim 10, wherein the RF isolation circuit comprises an inductor.
  - 13. The wireless terminal of Claim 1, wherein the flat-panel speaker is configured to act as a parasitic element to the internal antenna.

- 14. The wireless terminal of Claim 13, wherein the flat-panel speaker is configured to act as a parasitic element that provides a lower frequency range frequency response for the internal antenna.
- 30 15. The wireless terminal of Claim 13, wherein the flat-panel speaker is configured to act as a parasitic element that provides an increased bandwidth frequency response for the internal antenna.

- 16. The wireless terminal of Claim 13, wherein the flat-panel speaker is configured to act as a parasitic element that provides a multi-band frequency response for the internal antenna.
- 5 17. The wireless terminal of Claim 1, wherein the internal antenna comprises a planar inverted-F antenna (PIFA).
  - 18. The wireless terminal of Claim 1, wherein the internal antenna comprises a single-contact patch antenna.
  - 19. The wireless terminal of Claim 1, wherein the internal antenna comprises a monopole antenna.
- 20. The wireless terminal of Claim 2, wherein the electronic circuit comprises:

an audio driver circuit coupled to the flat-panel speaker through a balanced feed comprising a plurality of leads;

an antenna driver circuit in communication with the internal antenna; and a signal compensation circuit in communication with the audio driver circuit and the antenna driver circuit, wherein when the internal antenna is in transmit mode the signal compensation circuit compensates a signal from the audio driver circuit to the flat-panel speaker.

- 21. An antenna subassembly comprising:
- a flat panel speaker wherein the flat panel speak

10

- a flat-panel speaker, wherein the flat-panel speaker is integrated with the planar antenna.
- 22. The antenna subassembly of Claim 21, wherein the flat-panel speaker and the planar antenna each comprise conductive portions that reside on a first primary surface of a common substrate.

- 23. The antenna subassembly of Claim 21, wherein the antenna subassembly further comprises an electronic circuit including an audio driver circuit coupled through a balanced feed to the flat-panel speaker.
- 5 24. The antenna subassembly of Claim 23, wherein the balanced feed comprises a plurality of leads, and wherein the electronic circuit further comprises an RF isolation circuit on each lead of the balanced feed.
- 25. The antenna subassembly of Claim 24, wherein the RF isolation circuit comprises a tank circuit.
  - 26. The antenna subassembly of Claim 24, wherein the RF isolation circuit comprises an inductor.
- 15 27. The antenna subassembly of Claim 21, wherein the flat-panel speaker is configured to act as a parasitic element to the planar antenna.
  - 28. The antenna subassembly of Claim 27, wherein the flat-panel speaker is configured to act as a parasitic element that provides a lower frequency range frequency response for the planar antenna.
    - 29. The antenna subassembly of Claim 27, wherein the flat-panel speaker is configured to act as parasitic element that provides an increased bandwidth frequency response for the planar antenna.

30. The antenna subassembly of Claim 27, wherei

- 30. The antenna subassembly of Claim 27, wherein the flat-panel speaker is configured to act as a parasitic element that provides a multi-band frequency response for the planar antenna.
- 30 31. The antenna subassembly of Claim 21, wherein the planar antenna comprises a planar inverted-F antenna (PIFA).
  - 32. The antenna subassembly of Claim 21, wherein the planar antenna comprises a single-contact patch antenna.

33. The antenna subassembly of Claim 21, wherein the planar antenna comprises a monopole antenna.